

WATER SAMPLING RESULTS

from the

22nd Street Property Chicago, Illinois

Submitted to:

Northern Trust Company Chicago, IL

Prepared by:

MAECORP Incorporated Homewood, Illinois

October 9, 1988

Project No. IL-A021

EPA Region 5 Records Ctr.



22981

Background

On September 2, 1988, MAECORP traveled to the Stack

Property, 22nd Street, Chicago, Illinois, at the request of Mr.

Mark Hale of Northern Trust Company. The objective of the project was to obtain a representative sample of discolored liquids discharging from a culvert located in a ditch approximately 100 yards from the street. The sample was to be analyzed for U.S. Environmental Protection Agency priority pollutant parameters.

Site Conditions

At the time of the sampling, the culvert was not discharging. A pool of stagnant water had collected in the ditch beneath the outfall. The water was a metallic blue in color and a distinct septic/organic odor was noted.

Sampling Method

The sampling method utilized grab sampling procedures with matrix obtained approximately 2 inches below the water surface. Two one-gallon glass containers, three 40 ml VOA vials with teflon septa, and one one-quart jar were filled, labeled, packed on ice, and transported to Gulf Coast Laboratory in University Park, Illinois, for analysis.



Laboratory Results

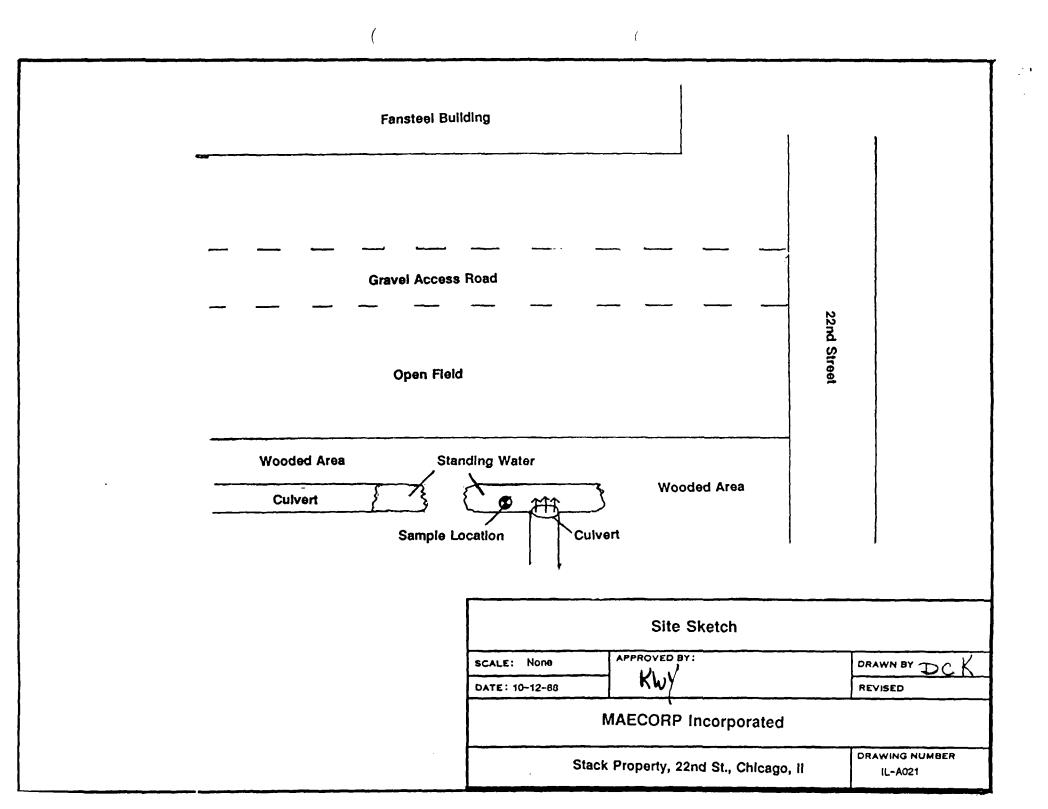
Based upon results from Gulf Coast Laboratories to MAECORP on October 5, 1988, all parameters on the priority pollutant list were non-detectable at the methods' specified limits except for:

| ncentration |
|---|
| .084 ppm 4 ppb 5 ppb 2 ppb ppb 9 ppb |
| 5 1 |

Other parameters were identified, but below detection limits. Several unknown parameters were noted. These results are noted in the attached laboratory data with "J" and/or "B" qualifiers. The most significant item consisted of an unknown organic parameter at 80 ppb with a 9.43 minute column retention time.

Summary

The laboratory data suggests that the sampled matrix was fairly clean relative to its visual discoloration. The elevated known and unknown volatile organic species are of some concern as they appear to have migrated from the site to an easily accessed location.





GULF COAST LABORATORIES, INC.

2417 Bond St., University Park, Illinois 60466

Phones (312) 534-5200 (219) 885-7077 (815) 723-7533

October 5, 1988

Mr. Fred Walker MAECORP, Inc. 17450 South Halsted Street Homewood, IL 60430

Dear Mr. Walker:

Please find enclosed the analytical report for the water sample submitted to Gulf Coast Laboratories for analyses. It was identified as follows:

| CLIENT ID | GCL# | SAMPLE DATE | DATE RECEIVED |
|--|--------|----------------|------------------|
| Waste Water from Stream Sample #ILA021 | 139455 | 09/02/88 | 09/06/88 |

If you have any questions, please contact our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau

John Boudreau Lab Manager

JB/sj

Enclosures



GULF COAST LABORATORIES, INC.

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The following is a list of flags that Gulf Coast Laboratories frequently uses on our analytical reports. All flags may not be applicable for the enclosed reports.

- A Indicates a condensation product.
- B Indicates the compound was found in the blank as well as the sample.
- C Pesticide compound confirmed by GC/MS
- d Result is on a dry weight basis
- D Indicates the compound was identified in an analysis at a secondary dilution factor. If a sample is re-analyzed at a higher dilution, the "DL" suffix is appended to sample numbers.
- e Concentrations exceed calibration range of the instrument for that specific analysis.
- E Severe matrix interference
- J Indicates an estimated value which is below detection limit
- P Peaks present but do not appear to be PCBs
- R Spike recovery not within control limit
- S Indicates value determined by Method of Standard Addition
- U Indicates compound was analyzed for but not detected
- W Result is on an "as is basis" (wet weight)
- BDL Below Detection Limit
- NA Not Applicable
- NR Not Required
- * Duplicate not within control limits
- + Correlation coefficient for MSA < 0.995
- Due to matrix interference, post analytical spike is out of control limits.
- X Result by calculation



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ANALYTICAL REPORT

TO: MAECORP, Incorporated 17450 South Halsted Street

Homewood IL 60430

ATTN: Mr. Fred Walker

DATE: 10/04/88

RE: Waste Water From Stream

P.O.# 27299 Sample# ILA021

Sample Date: 09/02/88
Date Received: 09/06/88
GCL Number: 139455

| GCL # PARAMETERS | | ANALYST | | RESULTS | |
|-------------------------|--|--------------|---|-------------|---|
| 139455 Antimony, Total | | jes | < | 0.500 mg/l | |
| 135455 Arsenic, Total | | dbs | < | 0.016 mg/l | - |
| 139455 Beryllium, Total | | jes | < | 0.002 mg/] | • |
| 139455 Cadmium, Total | | el | < | 0.004 mg/l | - |
| 139455 Chromium, Total | | el | < | 0.020 mg/l | * *4 . |
| 139455 Copper, Total | | el | < | 0.020 mg/l | - |
| 139455 Cyanides, Total | N. A. C. | , dji | < | 0.04 mg/] | |
| 139455 Lead, Total | | jlb | < | 0.004 mg/l | - |
| 139455 Mercury, Total | A STAN | nk | < | 0.0005 mg/J | R |
| 455 Nickel, Total | | el | < | 0.020 mg/] | |
| 139455 Phenols | ser services | mam | | 0.014 mg/] | |
| 139455 Selenium, Total | | dbs | < | 0.008 mg/ | |
| 139455 Silver, Total | · | prw | < | 0.02 mg/ | 10 mm |
| 139455 Thallium, Total | | jes | < | 0.300 mg/ | <u> </u> |
| 139455 Zinc, Total | | jmf | | 0.067 mg/ | <u> </u> |





TO: MAECORP, Inc.

er of Section

17450 South Halsted Street

Homewood, IL 60430

ATTN: Mr. Fred Walker

DATE: September 27, 1988

RE: Waste Water From Stream
Sample ILA021 P.O.#27299
Sample Date: 09/02/88
Date Received: 09/06/88

| | PARAMETER | RESULT | DETECT | ION LI | MIT | | |
|-------|---------------------|-----------|--------|--------|----------|---------|------------|
| | alpha-BHC | BDL BDL | 0.05 | ug/l | ט | | |
| ン | beta-BHC | BDL | 0.05 | ug/l | Ū | | |
| | delta-BHC | May & BDL | 0.05 | ug/l | ט | | |
| | gamma-BHC (Lindane) | BDL | 0.05 | ug/l | σ | | |
| | Heptachlor | BDL | 0.05 | ug/l | ט | | |
| | Aldrin | BDL | 0.05 | ug/l | Ū | | |
| | Heptachlor epoxide | A BDL | 0.05 | ug/l | ט | · ·· | 化表达 |
| | Endosulfan I | BDL | 0.05 | ug/l | Ū | | |
| | Dieldrin | BDL | 0.10 | ug/l | υ - | . B.I | Salation (|
| | 4,4'-DDE | BDL | 0.10 | ug/l | Ū | | |
| | Endrin | BDL | -0.10 | ug/l | ט | | |
| | Endosulfan II | BDL | 0.10 | ug/l | σ | | |
| | 4,4'-DDD | BDL | 0.10 | ug/l | Ū | | |
| | Endosulfan sulfate | BDL | 0.10 | ug/l | U | | |
| | 4.4'-DDT | BDL | 0.10 | ug/l | U | | |
| | Methoxychlor | BDL | 0.5 | ug/l | U | | |
| - | Endrin ketone | BDL | 0.10 | ug/l | | · | • . |



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DATE: September 27, 1988

RE: Waste Water From Stream

Sample ILA021 P.O.#27299 Sample Date: 09/02/88 Date Received: 09/06/88

GCL#:

139455

| PARAMETER | RESULT | DETECT | ION LI | TIM | |
|-----------------|---------------------------------------|---------------|--------|-----|------|
| alpha-Chlordane | BDL | 0.5 | ug/l | Ū | |
| gamma-Chlordane | BDL | 0.5 | ug/l | Ū | |
| Toxaphene | BDL | 1.0 | ug/l | U | |
| Aroclor 1016 | BDL | 0.5 | ug/l | Ū | |
| Aroclor 1221 | BDL | 0.5 | ug/l | ט | |
| Aroclor 1232 | BDL | 0.5 | ug/l | υ | |
| Aroclor 1242 | BDL | 0.5 | ug/l | ט | |
| Aroclor 1248 | BDL | 0.5 | ug/l | σ | |
| Aroclor 1254 | BDL | 1.0 | ug/l | ט | |
| Aroclor 1260 | BDL | 1.0 | ug/l | Ū | |
| PCBs, Total | BDL | 1.0 | ug/l | U | s 25 |
| | | | | | |
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ANALYTICAL REPORT

TO: MAECORP, Inc.

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Homewood, IL 60430

ATTN: Mr. Fred Walker

DATE: September 27, 1988

RE: Waste Water From Stream Sample ILA021 P.O.#27299 Sample Date: 09/02/88 Date Received: 09/06/88

| VOLATILE COMPOUNDS | RESULT | DETEC | TION I | IMIT | |
|----------------------------|--------|-------|--------|------|---|
| Chloromethane | BDL | 10 | ug/l | υ | 13.20 |
| Bromomethane | BDL | 10 | ug/l | U | |
| Vinyl Chloride | BDL | 10 | ug/l | U | Sec. 4 |
| Chloroethane | BDL | 10 | ug/l | U | |
| Methylene Chloride | 54 | 5 | ug/l | V-25 | ## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Acetone | 25 | 10 | ug/l | | |
| Carbon Disulfide | BDL | 5 | ug/l | U | ng Barana |
| 1,1-Dichloroethene | BDL | 5 | ug/l | U | |
| 1,1-Dichloroethane | BDL | 5 | ug/1 | U i | |
| 1,2-Dichloroethene (total) | 52 | 5 | ug/l | | |
| Chloroform | BDL | 5 | ug/1 | ט | Marie Carlo |
| 1,2-Dichloroethane | BDL | 5 | ug/l | σ | |
| 2-Butanone | BDL | 10 | ug/l | σ | |
| 1,1,1-Trichloroethane | 5 | 5 | ug/l | | |
| Carbon Tetrachloride | BDL | 5 | ug/1 | U | • |
| Vinyl Acetate | BDL | 10 | ug/l | บ | |
| Bromodichloromethane | BDL | 5 | ug/l | Ū | ्री १८८४ - इसम्बद्धीर विद्वास |



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2417 Bond St., University Park, Illinois 60466

GULF COAST LABORATORIES, INC.

ANALYTICAL REPORT

THE PORT OF THE PO

DATE: September 27, 1988

RE: Waste Water From Stream
Sample ILA021 P.O.#27299
Sample Date: 09/02/88
Date Received: 09/06/88
GCL#: 139455

Homewood, IL 60430
ATTN: Mr. Fred Walker

TO: MAECORP, Inc.

| , | VOLATILE COMPOUNDS | RESULT | DETEC | TION L | IMI' | T | |
|----------|---------------------------|--------|-------|--------|------|------|---------------------------------------|
| | 1,2-Dichloropropane | BDL | 5 . | ug/l | U | | |
| <u> </u> | Cis-1,3-Dichloropropene | BDL | 5 | ug/l | Ū | | _ |
| | Trichloroethene | 19 | 5 | ug/l | | | |
| | Dibromochloromethane | BDL | 5 | ug/l | Ū | | |
| | 1,1,2-Trichloroethane | BDL | 5 | ug/l | ū | | |
| | Benzene | BDL | 5 | ug/l | Ū | | |
| | Trans-1,3-Dichloropropene | BDL | 5 | ug/l | ū | | |
| <u> </u> | Bromoform | BDL | 5 | ug/l | Ū | | |
| | 4-Methyl-2-Pentanone | BDL | 10 | ug/l | Ū | | 5.75 |
| | 2-Hexanone | BDL | 10 | ug/l | σ | | |
| | Tetrachloroethene | BDL | 5 | ug/l | U | 14.1 | e e e e e e e e e e e e e e e e e e e |
| | 1,1,2,2-Tetrachloroethane | BDL | 5 | ug/l | U | | |
| | Toluene | BDL | 5 | ug/l | σ | | |
| | Chlorobenzene | BDL | 5 | ug/l | U | | |
| 1 | Ethylbenzene | BDL | 5 | ug/l | U | | |
| | Styrene | BDL | 5 | ug/l | U | | |
| | Xylene | BDL | 5 | ug/l | U | | |



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ANALYTICAL REPORT

COPY

DATE: September 27, 1988

RE: Waste Water From Stream

Sample ILA021 P.O.#27299 Sample Date: 09/02/88 Date Received: 09/06/88

| VOLATILE COMPOUNDS | RESULT | DETECTION I | LIMIT | |
|--|---------------------------------------|-------------|-----------------|---------|
| Acrolein | BDL | 100 ug/l | U - 2080 | 24.4 |
| Acrylonintrile | BDL | 100 ug/l | U | |
| Dichlorodifluoromethane | BDL | 20 ug/l | Ū . | . S. W. |
| Bis(chloromethyl)ether | BDL | 20 ug/l | Ū | |
| Trichlorofluoromethane | BDL | 10 ug/l | <u>U</u> | |
| 2-Chloroethyl Vinyl Ether | BDL | 10 ug/l | Ū | |
| | | | | |
| | 1 | | | 11 |
| | Parano S | | <u> </u> | * |
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| | | | | |
| | | | | |
| gram de arsando guestada e l'organia de la composition della compo | · · · · · · · · · · · · · · · · · · · | | | |



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DATE: September 27, 1988

RE: Waste Water From Stream

Sample ILA021 P.O.#27299 Sample Date: 09/02/88 Date Received: 09/06/88 GCL#: 139455

| TENTATIVELY IDENTIFIED | COMPOUNDS |
|--|--|
| No Volatile Compounds greater than 10% of | the nearest internal |
| standard were tentatively identified by ma | ss spectral library |
| search. This is exclusive of any priority | pollutants, |
| surrogates or internal standards. | |
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| | Service with the service of the serv |
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ANALYTICAL REPORT

TO: MAECORP, Inc.

17450 South Halsted Street

Homewood, IL 60430

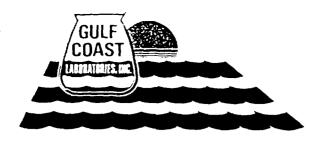
ATTN: Mr. Fred Walker

DATE: September 27, 1988

RE: Waste Water From Stream Sample ILA021 P.O.#27299

Sample That 21 F.O. #2725: Sample Date: 09/02/88 Date Received: 09/06/88 GCL#: 139455

| SEMIVOLATILE COMPOUNDS | RESULT | DETECTION LIMIT |
|-----------------------------|--------|-----------------|
| - Phenol | BDL | 10 ug/l U |
| bis(-2-Chloroethyl)Ether | BDL | 10 ug/l U |
| 2-Chlorophenol | BDL | 10 ug/l U |
| 1,3-Dichlorobenzene | BDL | 10 ug/l U |
| 191,4-Dichlorobenzene | BDL | 10 ug/l U |
| Benzyl Alcohol | BDL | 10 ug/l U |
| 1,2-Dichlorobenzene | BDL | 10 ug/1 U |
| 2-Methylphenol | BDL | 10 ug/l U |
| bis(2-chloroisopropyl)Ether | BDL . | 10. ug/1 U |
| 4-Methylphenol | BDL. | 10 ug/l U |
| N-Nitroso-Di-n-Propylamine | BDL | 10 ug/l 0 |
| Hexachloroethane | BDL | 10 ug/l U |
| Nitrobenzene Nitrobenzene | BDL | 10 ug/l U |
| Isophorone | BDL | 10 ug/l U |
| 2-Nitrophenol | BDL | 10 ug/l U |
| 2,4-Dimethylphenol | BDL | 10 ug/l U |
| Benzoic Acid | BDL | 50 ug/1 U |
| bis(-2-Chloroethoxy)Methane | BDL | 10 ug/l U |
| 2,4-Dichlorophenol | BDL : | 10 ug/l U |



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RE: Waste Water From Stream
Sample ILA021 P.O.#27299
Sample Date: 09/02/88
Date Received: 09/06/88
GCL#: 139455

| SEMIVOLATILE COMPOUNDS | RESULT | DETEC | TION LIMIT | |
|---------------------------|--------|-----------------|------------|---------|
| 1,2,4-Trichlorobenzene | BDL | 10 | ug/l U | ~ |
| Naphthalene | BDL | 10 | ug/l U | |
| 4-Chloroaniline | BDL | 10 | ug/l U | |
| Hexachlorobutadiene | BDL | 10 | ug/l U | |
| 4-Chloro-3-Methylphenol | BDL | 10 | ug/l U | |
| 2-Methylnaphthalene | BDL | 10 | ug/l U | |
| Hexachlorocyclopentadiene | BDL | 10 | ug/l U | e e e e |
| 2,4,6-Trichlorophenol | BDL | 10 | ug/l U | |
| 2,4,5-Trichlorophenol | BDL | <u> 44,7</u> 50 | ug/l U | |
| 2-Chloronaphthalene | BDL | 10 | ug/l U | |
| 2-Nitroaniline | BDL | 50 | ug/l U | 4. 54 |
| Dimethyl Phthalate | BDL | 10 | ug/l U | |
| Acenaphthylene | BDL | 10 | ug/1 U | |
| 2,6-Dinitrotoluene | BDL | 10 | ug/l U | |
| 3-Nitroaniline | BDL | 50 | ug/1 U | |
| Acenaphthene | BDL | 10 | ug/l U | |
| 2,4-Dinitrophenol | BDL | 50 | ug/1 U | |
| 4-Nitrophenol | BDL | 50 | ug/l 0 | |
| Dibenzofuran | BDL | 10 | ug/l 0 | |





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Sample Date: 09/02/88
Date Received: 09/06/88
GCL#: 139455

| SEMIVOLATILE COMPOUNDS | RESULT | DETEC' | TION | LIMIT | | |
|----------------------------|---------------------------------------|--------|------|------------|-------------|----------|
| 2,4-Dinitrotoluene | BDL | 10 | ug/l | U | | · |
| _ Diethylphthalate | BDL | 10 | ug/l | U | | |
| 4-Chlorophenyl-phenylether | BDL | 10 | ug/l | U | | |
| Fluorene | BDL | 10 | ug/l | U | | н |
| 4-Nitroaniline | BDL | 50 | ug/l | U | | |
| 4,6-Dinitro-2-Methylphenol | BDL | 50 | ug/l | U | | |
| N-Nitrosodiphenylamine (1) | BDL | 10 | ug/l | . U | | <u> </u> |
| 4-Bromophenyl-phenylether | BDL | 10 | ug/l | U | | |
| Hexachlorobenzene | BDL | 10 | ug/l | σ | · · · · | |
| Pentachlorophenol | BDL | 50 | ug/l | U | | |
| Phenanthrene | BDL | 10 | ug/1 | <u></u> ט | · | <u> </u> |
| Anthracene | BDL | 10 | ug/l | U | | |
| Di-n-Butylphthalate | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 | ug/l | J | | e, bez |
| Fluoranthene | BDL | 10 | ug/l | <u></u> ט | · | |
| Pyrene | BDL | 10 | ug/l | U | | |
| Butylbenzylphthalate | BDL | 10 | ug/l | U | | |
| 3,3'-Dichlorobenzidine | BDL | 20 | ug/l | U | | |
| Benzo(a)Anthracene | BDL | 10 | ug/l | U | | |
| Chrysene | BDL | 10 | ug/l | . 0 | | |





TO: MAECORP, Inc.

17450 South Halsted Street

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ATTN: Mr. Fred Walker

DATE: September 27, 1988

RE: Waste Water From Stream
Sample ILA021 P.O.#27299
Sample Date: 09/02/88
Date Received: 09/06/88

| SEMIVOLATILE COMPOUNDS | result | DETEC | TION L | IMIT | |
|---------------------------------|--------------|-------|--------|----------|----------|
| bis(2-Kthylhexyl)Phthalate | 11 | 10 | ug/l | В . | |
| Di-n-Octylphthalate | BDL | 10 | ug/l | U | |
| Benzo(b)Fluoranthene | BDL | 10 | ug/l | ט | 2 July 1 |
| Benzo(k)Fluoranthene | BDL | 10 | ug/l | D | |
| Benzo(a)Pyrene | BDL | 10 | ug/l | U. | |
| Indeno(1,2,3-cd)Pyrene | BDL | 10 | ug/l | U | |
| Dibenz(a,h)Anthracene | BDL | 10 | ug/l | 0 | and j |
| Benzo(g,h,i)Perylene | BDL | 10 | ug/l | Ū | |
| N-Nitrosodimethylamine | BDL | 10 | ug/l | U | |
| 1,2-Diphenylhydrazine | BDL | 10 | ug/l | Ū | |
| Benzidine | BDL | 100 | ug/l | ט | |
| 3-Methylphenol (1) | BDL | 10 | ug/l | ט | |
| Dioxin (2) | NA | | | | |
| (1) Cannot be separated from di | phenylamine | | | | |
| (2) Screened by MC4 108, 107, 7 | 9 Ion Search | | | , | 37 |
| | | | | | |





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ATTN: Mr. Fred Walker

DATE: September 27, 1988

RE: Waste Water From Stream Sample ILA021 P.O.#27299 Sample Date: 09/02/88 Date Received: 09/06/88

GCL#:

139455

TENTATIVELY IDENTIFIED COMPOUNDS

Thirteen (13) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

| | RETENTION | ESTIMATED | | ED | |
|---------------------------|-----------|---------------|------|------------|-----|
| SEMIVOLATILE COMPOUND | TIME | CONCENTRATION | | rion | |
| Unknown | 6.62 | 10 | ug/l | Ј В | |
| 1,1,2,2-Tetrachloroethane | 8.52 | 6 | ug/l | J | |
| Unknown | 8.66 × 1 | 48 | ug/l | J B | : v |
| Unknown | 8.98 | 10 | ug/l | J | |
| Unknown | 9.43 | 80 | ug/l | J | |
| Unknown | 12.51 | 7 | ug/l | J | |
| Unknown | 17.11 | 6 | ug/l | J | |
| Unknown | 17.40 | 6 | ug/l | J | · |
| <u>Unknown</u> | 17.60 | 6 | ug/l | J | |
| Unknown | 24.18 | 5 | ug/l | J | |
| Unknown | 28.84 | 17 | ug/l | J | |
| Unknown | 36.78 | 6 | ug/l | J | |
| Unknown | 37.42 | 5 | ug/l | J | |



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Gulf Coast Laboratories

The following is a list of flags that Gulf Coast Laboratories frequently uses on our analytical reports. All flags may not be applicable for the enclosed reports.

- A Indicates a condensation product.
- B Indicates the compound was found in the blank as well as the sample.
- C Pesticide compound confirmed by GC/MS
- d Result is on a dry weight basis
- D Indicates the compound was identified in an analysis at a secondary dilution factor. If a sample is re-analyzed at a higher dilution, the "DL" suffix is appended to sample numbers.
- e Concentrations exceed calibration range of the instrument for that specific analysis.
- E Severe matrix interference
- J Indicates an estimated value which is below detection limit
- P Peaks present but do not appear to be PCBs
- R Spike recovery not within control limit
- S Indicates value determined by Method of Standard Addition
- U Indicates compound was analyzed for but not detected
- W Result is on an "as is basis" (wet weight)
- BDL Below Detection Limit
- NA Not Applicable
- NR Not Required
- * Duplicate not within control limits
- + Correlation coefficient for MSA < 0.995
- Due to matrix interference, post analytical spike is out of control limits.
- X Result by calculation

RECEIVING ENTITY GULF COAST

ENTITY CONTACT/PHONE_

MAECORP JOB SITE PHONE_

| PRO IFCY 10 | YATIOU | | NAME OF GLIENE | | | COUCHE NUMBER | | PROJECT N | MRFR | |
|-----------------------------------|------------------|------------------------------|---------------------------|--------------------------|-------------|---------------|-------------------------|-------------|------|--|
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